

FIG. 1

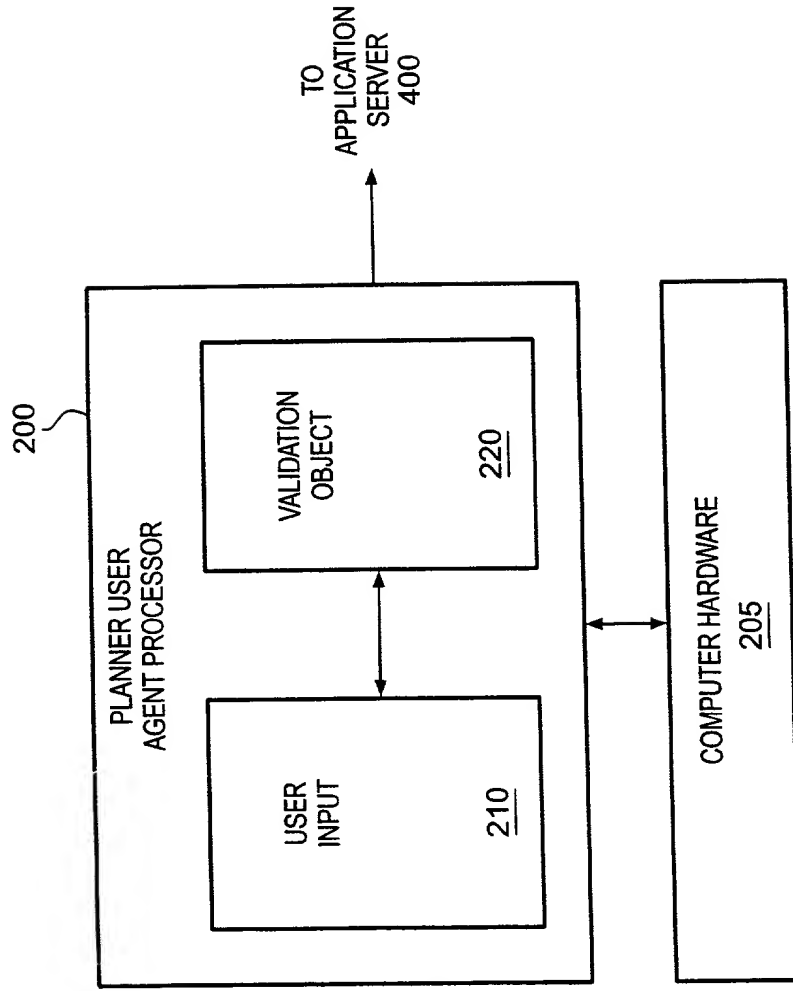


FIG. 2

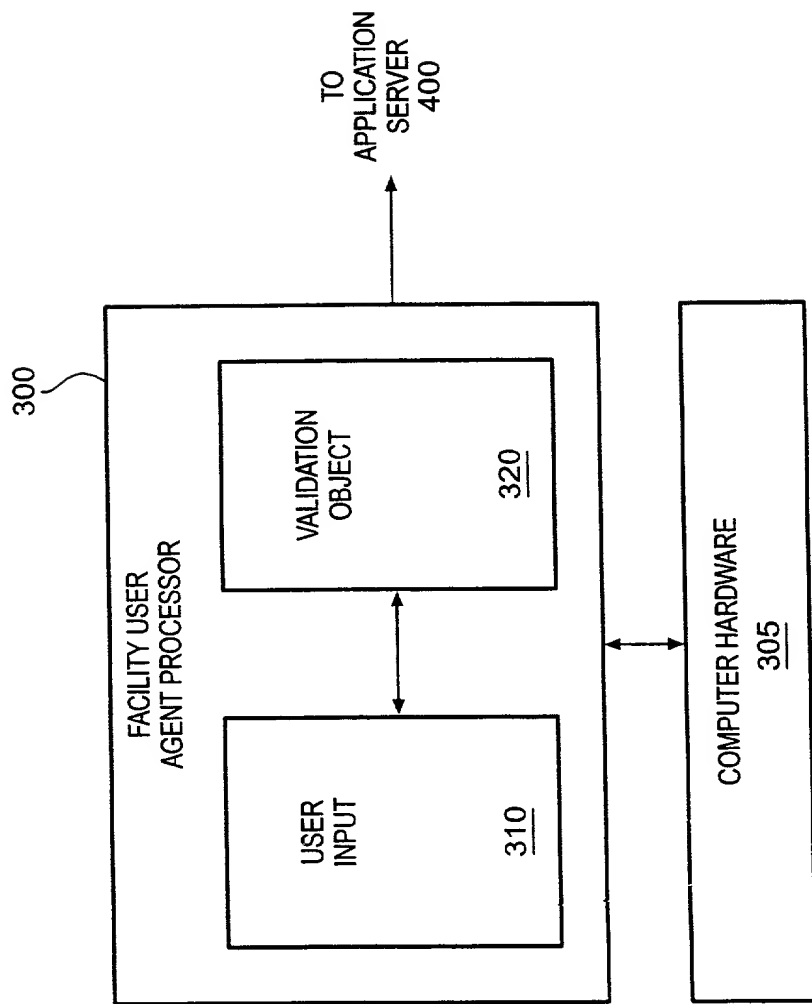


FIG. 3

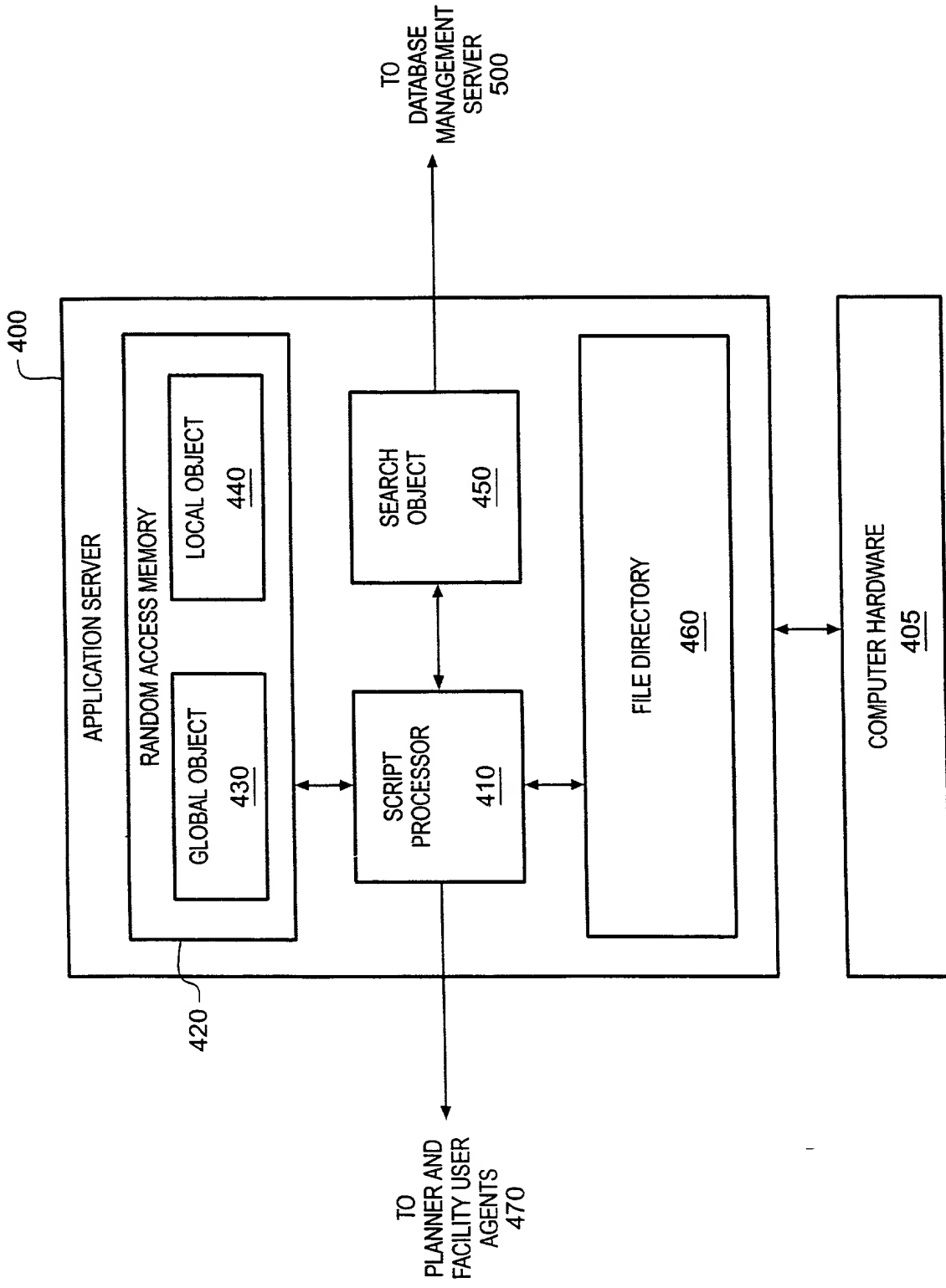


FIG. 4

500

DATABASE MANAGEMENT SERVER

USER PROFILE TABLE

510

ORIGIN TABLE

520

TRANSPORTATION TABLE

530

METRO TABLE

540

PROPERTY TABLE

550

TO
APPLICATION
SERVER
400

FIG. 5

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Method Calculate()
Parameters:    PropertyArrays, ConferenceArray, AttendeeArray, MealArray,
               TransportationArrays, OriginArrays (officeArray & AirportArray), MetroArray,
               and UserProfile

For each property in PropertyArrays
    Store transportation cost between property and each airport it serves in AirTranArray
    Store filtered values from PropertyArrays to FilterValue
    Store guestroom rate + applicable taxes from PropertyArray to LodgeCost
    Store effective date to PropStart and PropEnd
    Store quality from PropertyArrays to Quality
    For each valid meal cost in MealArray where
        (EffectiveStart = Max (PropStart, MealStart)) < (EffectEnd = Min (PropEnd, MealEnd))
        Store individual meal cost for property to MealCost
        MealCost = Breakfast + Lunch + Dinner + Incidentals - Complimentary Meals
        If MealCost + LodgeCost for an attendee > MaxCost from UserProfile
            Skip to next meal cost
        EndIf
        Call GetDist
        Store total meal cost to TotalMeal
        TotalMeal = (OnTime x MealCost x (NumDays - ((1 - FirstDay%) + (1 - LastDay%)))) + ((Visitors - OnTime) x MealCost x ((NumDays + 1) - ((1 - FirstDay%) + (1 - LastDay%)))) + Local x NumDays x LocalMeal%
        Store total lodging cost to TotalLodge
        TotalLodge = (OnTime x (NumDays-1) x LodgeCost) + ((Visitors - OnTime) x NumDays x LodgeCost)
        For each office in OfficeArray where distance to Hotel < MaxOfficeDist in MetroArray
            Store local transportation cost to LocalTrans
            LocalTrans = 0 if free shuttle from Hotel to Office is available, otherwise
            LocalTrans = Min ((Distance x Taxi), AltOffTrans)
            Call TransCost Method and store result in TotalTrans
            Store all-inclusive meeting cost to TotalCost
            TotalCost = (1 + MiscExpense) from UserProfile x (TotalTrans + TotalMeal + TotalLodge)
            Store current results to OfficeResultsArray
            This includes HotelID, OfficeID, RateID, MealID, TotalCost, Quality, FilterValue, Visitors, OnTime, EffectStart, EffectEnd
        Endfor
        Store 0 to LocalTrans
        Call TransCost Method and store result in TotalTrans
        With least expensive conference room in ConferenceArray which meets meeting requirements where (TotalStart = Max (EffectStart, ConfStart)) < (TotalEnd = Min (EffectEnd, ConfEnd))
            Store conference room cost to ConfCost
            ConfCost = (ConfRate x NumDays)
            Store all-inclusive meeting cost to TotalCost
            TotalCost = (1 + MiscExpense) from UserProfile x (TotalTrans + TotalMeal + TotalLodge + ConfCost)
            Store current results to HotelResultsArray
            This includes HotelID, RateID, MealID, ConfID, TotalCost, Quality, FilterValue, Visitors, OnTime, TotalStart, TotalEnd
        Endwith
    Endfor
Endfor
EndMethod (Return OfficeResultsArray, HotelResultsArray)

```

FIG. 6A

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Method TransCost()
  Parameters:  PropLatitude from PropertyArrays, PropLongitude from PropertyArrays
              AirTranArray, AttendeeArray, TransportationArrays (AirfareArray), MetroArray
              UserProfile and LocalTrans

  For each attendee group in AttendeeArray
    Store number of attendees in each group to NumAttendees
    If Distance > maximum driving distance
      Increment TotalAir with total airfare cost
      Take min airfare between all airport pairs from origin to destination:
        Min( ((OneWayAir + OriginTrans + DestTrans) + (LocalTrans x NumDays)) x
              (NumAttendees x 2)
    Else
      If Distance > LocalDist
        Store distance from hotel to office to OffDist
        Increment TotalDrive with DriveCost
        DriveCost = ((Distance + (OffDist x NumDays)) + MileReimburse) x
                    (NumAttendees x 2)
      Else
        Increment TotalDrive with LocalDrive
        LocalDrive = ((Distance x MileReimburse) + LocalTrans) x (NumAttendees x
                                                                    NumDays x 2)
      EndIf
    EndIf
  EndFor

  Store TotalAir + TotalDrive to TotalTrans
EndMethod (Return TotalTrans)

```

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Method GetDist()
  Parameters:  AttendeeArray, PropLatitude, PropLongitude, OriginArrays

  For each attendee group in AttendeeArray
    Store distance between origin point and property to Distance in AttendeeArray
    Distance can be calculated using latitude and longitude of the property and the origin
    If Distance < LocalDist
      Increment Local with number of attendees in attendee group
    Else
      Increment Visitors with number of attendees in attendee group
      If Distance < ExtraDayDist
        Increment OnTime with number of attendees in attendee group
      Else
        Increment ExtraDay with number of attendees in attendee group
      EndIf
    EndIf
  EndFor

```

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FIG. 6B

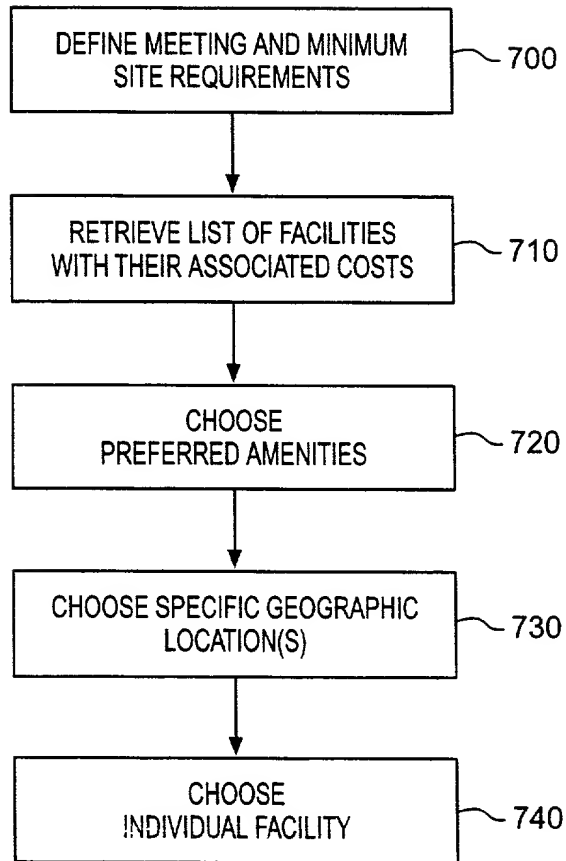


FIG. 7

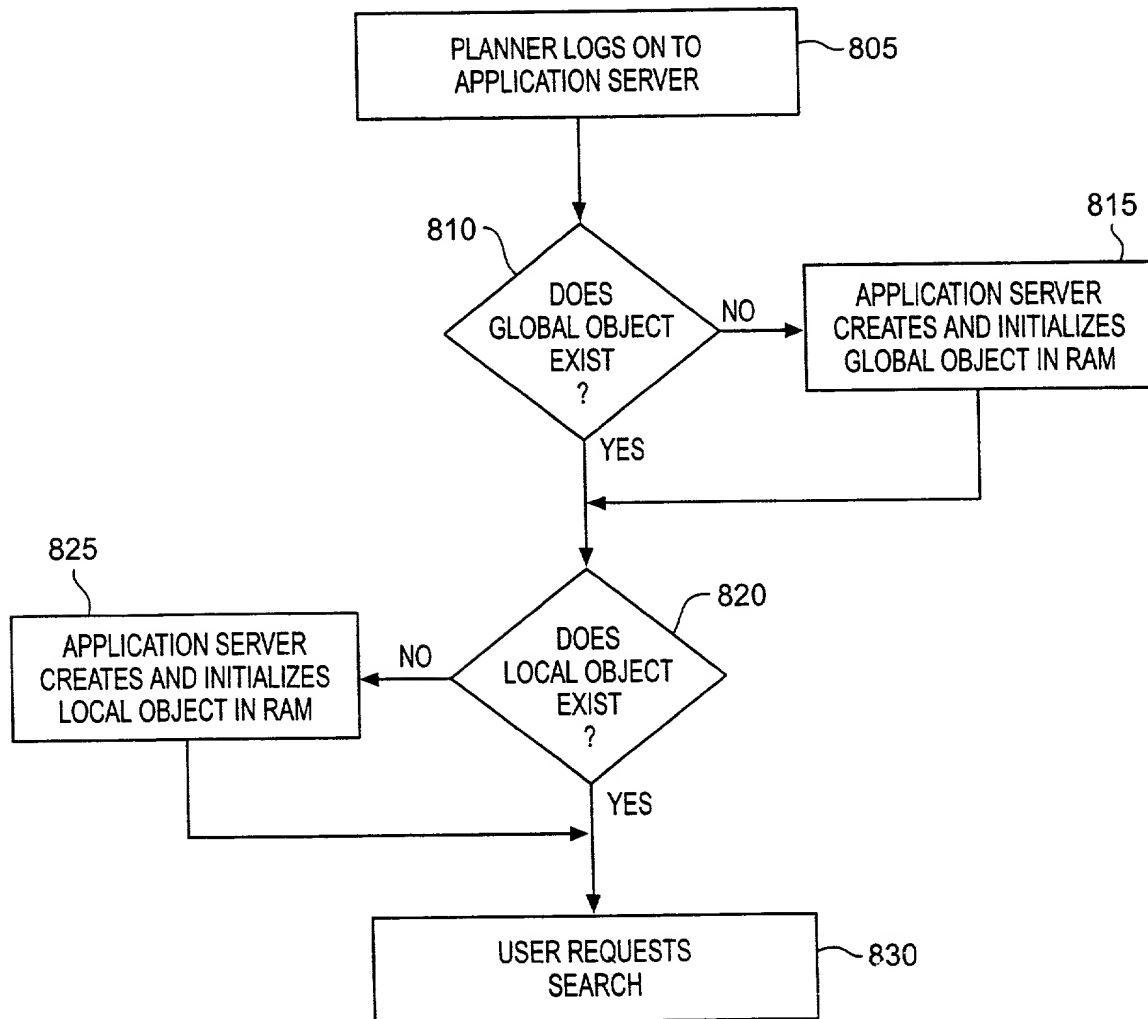


FIG. 8

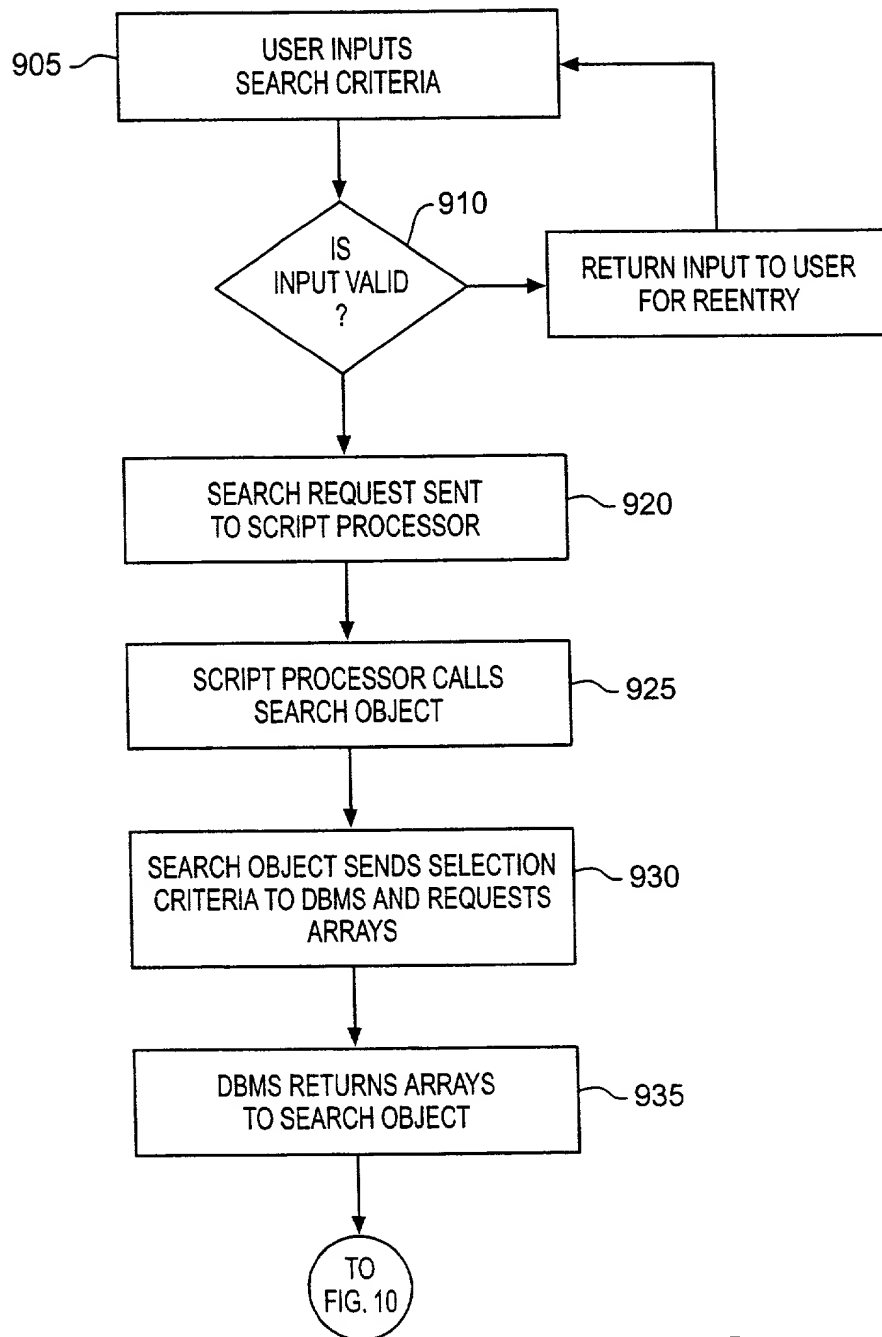


FIG. 9

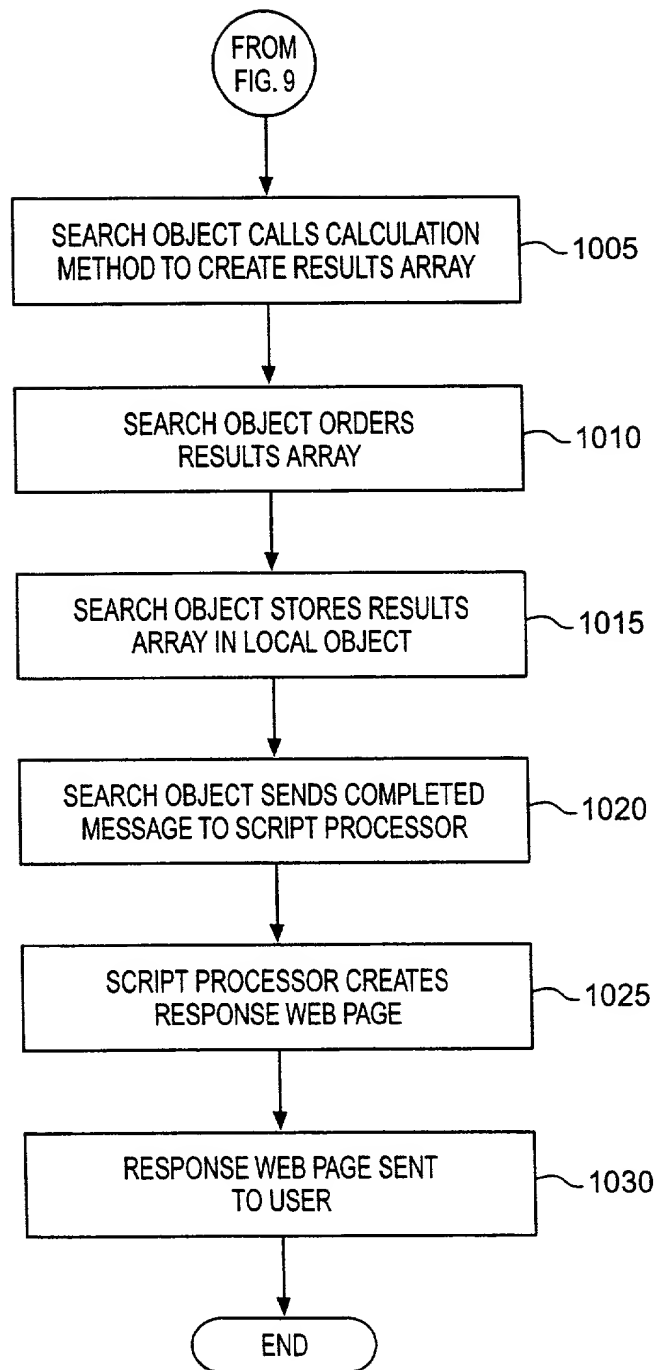


FIG. 10

1100

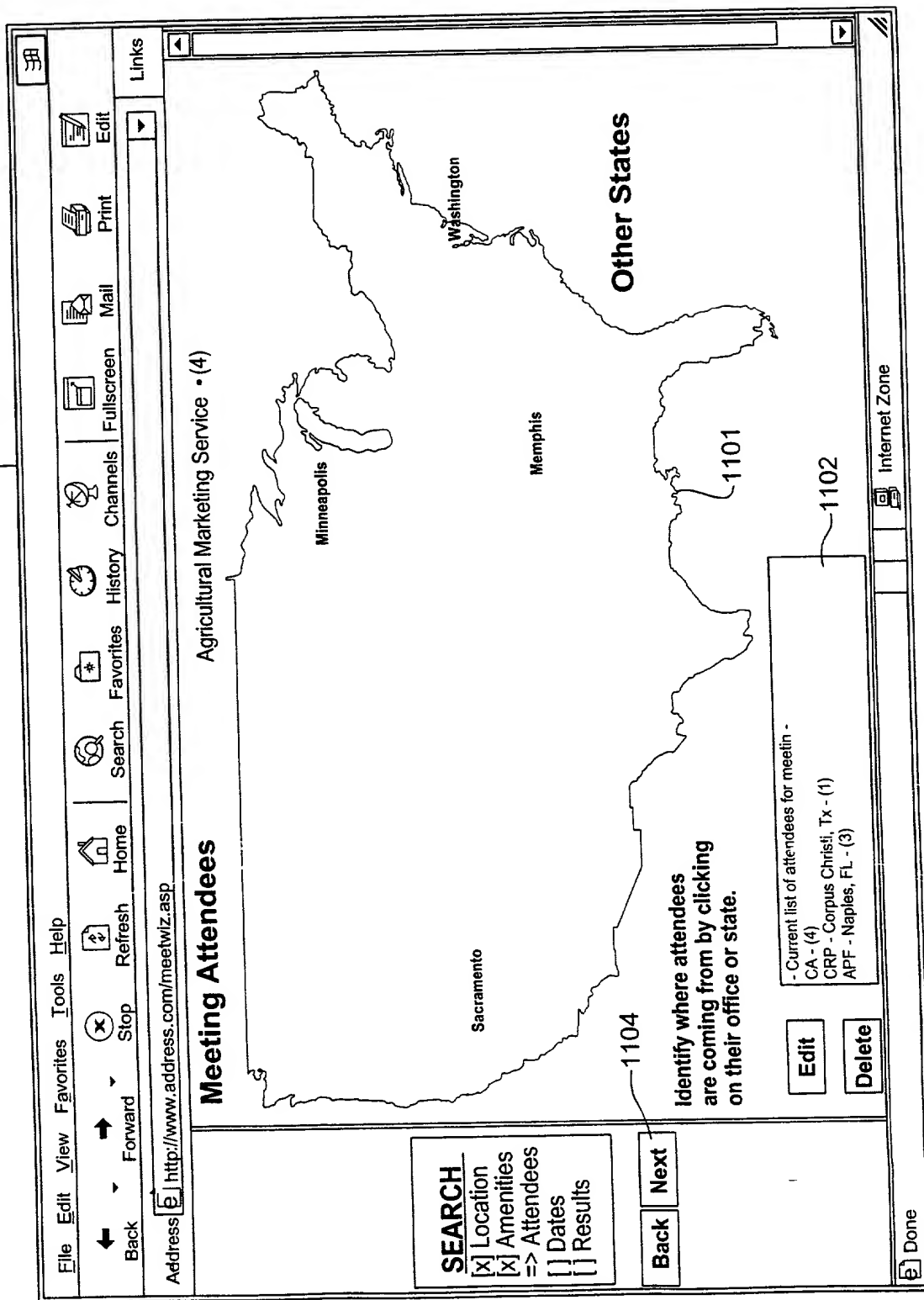


FIG. 11

Meeting Dates

3/17/1999

3 ▾

3/2/1999

4/3/1999



February 1999													
1	2	3	4	5	6								
7	8	9	10	11	12	13							
14	15	16	17	18	19	20							
21	22	23	24	25	26	27							
28													

January 1999													
						1	2						
						3	4	5	6	7	8	9	
						10	11	12	13	14	15	16	
						17	18	19	20	21	22	23	
						24	25	26	27	28	29	30	
						31							

April 1999													
						1	2	3					
						4	5	6	7	8	9	10	
						11	12	13	14	15	16	17	
						18	19	20	21	22	23	24	
						25	26	27	28	29	30		

March 1999													
						1	2	3	4	5	6		
						7	8	9	10	11	12	13	
						14	15	16	17	18	19	20	
						21	22	23	24	25	26	27	
						28	29	30	31				

FIG. 12

Search Results - For Selection Report

Preferred Date 3/17/99

Sorted by

☒ Lowest Cost (3+)

☐ Highest Quality ()

etings Held At

Hotel/Conference Facility

Office/Military Base

1303

1302

Request Amenities

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Hotels/Conference Facilities		Property - Location	Quality Rating	Special Rate Dates	Estimated Total Cost*
<input type="checkbox"/> 1.	Travelodge Main Gat	Feb 1 - Apr 30	3		\$4,695
<input type="checkbox"/> 2.	Holiday Inn Cypress	Jan 1 - Apr 30	3		\$4,708
<input type="checkbox"/> 3.	Days Inn Rocky Point	Jan 1 - Apr 30	3		\$4,728
<input type="checkbox"/> 4.	Days Inn St. Petersburg	Jan 1 - Apr 30	3		\$4,786
<input type="checkbox"/> 5.	Best Western Clearv	Jan 1 - Apr 30	3		\$4,821
<input type="checkbox"/> 6.	Comfort Inn - Orland		3		\$4,824
<input type="checkbox"/> 7.	Days Inn Cocoa - Co		3		\$4,903
<input type="checkbox"/> 8.	Holiday Inn Central P		3		\$5,041
<input type="checkbox"/> 9.	Comfort Inn - Hollyw	Jan 1 - Apr 30	3		\$5,069
<input type="checkbox"/> 10.	Tampa Airport Hilton at Metrocenter - Tampa, FL	Jan 1 - Apr 30	3		\$5,084
<input type="checkbox"/> 11.	Hampton Inn of Sarasota - Sarasota, FL	Jan 1 - Apr 30	3		\$5,254

FIG. 13

1301

Search Results - For Selection Report

Preferred Date 3/17/99

Sorted by

- ☒ Lowest Cost (3+ stars)
☐ Highest Quality (within Per Diem)

Meetings Held At

- ☒ Hotel/Conference Facility
☐ Office/Military Base

Hotels/Conference Facilities Ordered by Lowest Cost

Select	Property - Location	Quality Rating	Special Rate Dates	Estimated Total Cost*
<input type="checkbox"/> 10.	Tampa Airport Hilton at Metrocenter - Tampa, FL	3	Jan 1 - Apr 30	\$5,084
<input type="checkbox"/> 18.	Orlando Marriott - Orlando, FL	3		\$5,518
<input type="checkbox"/> 20.	Comfort Inn & Suites - Miami, FL	3	Jan 1 - Apr 30	\$5,567
<input type="checkbox"/> 22.	Sheraton University Inn - Orlando, FL	3		\$5,626
<input type="checkbox"/> 25.	Quality Inn - Naples, FL	3	Jan 1 - Apr 30	\$5,674
<input type="checkbox"/> 40.	Best Western McCarran House Inn - Sparks, NV	3		\$6,486
<input type="checkbox"/> 64.	Continental Plaza Los Angeles Airport - Los Angeles, CA	3		\$6,930
<input type="checkbox"/> 72.	Flamingo Resort - Santa Rosa, CA	3		\$7,048
<input type="checkbox"/> 91.	Embassy Suites - Phoenix, AZ	3	Jan 1 - Apr 30	\$7,205
<input type="checkbox"/> 103.	Holiday Inn - Oklahoma, City, OK	3		\$7,317
<input type="checkbox"/> 106.	Holiday Inn - Phoenix, AZ	3	Jan 1 - Apr 30	\$7,346

FIG. 14

1402

1403